DIRECT INTERNET DATA

User's Guide

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1 Direct Internet Data Overview

Direct Internet Data Service provides enhanced Internet connectivity through dedicated servers at the Iridium gateway, allowing you to execute accelerated file transfers and to more efficiently browse the Internet and exchange email. Using this service, you connect directly to the Internet, using your Iridium phone as a data modem.

Direct Internet Data Service offers faster connection times, improved throughput, and Smart Connect™ features. Smart Connect™ assists you in managing your airtime by seamlessly connecting and disconnecting you through the Iridium system when no data is being transferred. This feature, called "spoofing", will reduce airtime charges, improve the phone's battery life, and allow you to seamlessly reconnect to the Iridium system if your connection is dropped. Airtime charges accumulate only while the call is connected.

Improved effective data throughput is achieved through the use of user-transparent data compression. The channel rate is still 2.4 Kbps, but up to 10 Kbps effective throughput can be achieved depending on content (graphics and images will result in lower effective throughput).

Before using Direct Internet Data, you will need to install the client software (provided on the Iridium World Data Services CD) on your computer.

How it Works

To access Direct Internet Services, you will need a computer and data capable Iridium phone. You will connect the computer to the Iridium phone with a serial cable. In essence, your Iridium phone appears as an external modem to your computer.

By initiating a connection through the client software, your handset will dial and initiate a connection with the Iridium gateway through the Iridium satellite constellation, and the switch will route the call to the Direct Internet server. Once connected to the Direct Internet server and a session has been established, you will be seamlessly connected to the Internet, as if you were on a LAN. You can then check your email and browse the Internet just like you would via Dial-Up Data Service, except that now you have the advantages offered by the Direct Internet Data Service. Figure 1 illustrates how a Direct Internet data call is routed.

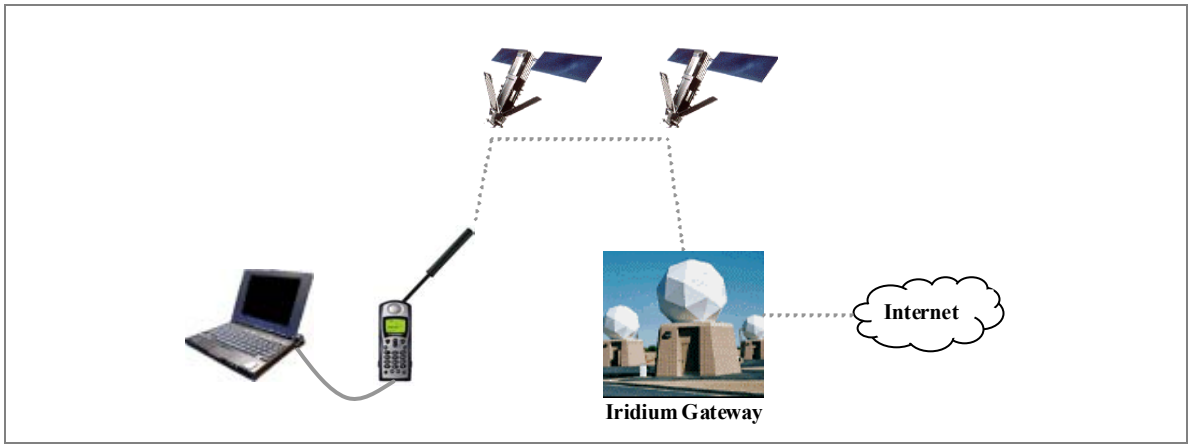


Figure 1. Iridium Direct Internet Data Connectivity

2 Hardware/Software Requirements

To use Iridium Direct Internet Data Service, you will need the following:

✓ **A Windows®-based PC**, with:

- Windows® 95, 98, Me, NT4.0 (Service Pack 4 or later), 2000 or XP
- CD-ROM drive
- Serial port

✓ **A SIM Card** that is provisioned for data (note that this SIM can also be used for voice calls).

✓ **An Iridium Phone** with a data-capable internal software version and additional hardware/software:

Iridium Phone Type	Software Version Required	Hardware/Software Required
Motorola 9500 Portable Phone	INC0620 or later[1]	Data Kit
Motorola 9505 Portable Phone	LAC109G or later[1]	Data Kit
Motorola 9520 Mobile Phone	RAC0620 or later[1]	Data CD
Motorola 9521 LBT-based products (e.g. the Iridium 9500 Data Module)	RAC0620 or later	Custom Cable, Power Supply[2] and Data CD
Motorola 9522 LBT-based products	All software versions for the 9522 are data capable	Custom Cable, Power supply[2] and Data CD
EuroCom Fixed Mount Unit	Transceiver software version 3.xx.xx or later[3]	Serial Cable[4] and Data CD

1 To check the software version: Turn the phone on and press *#91#.
2 Consult product documentation for details.
3 Consult the user's guide that came with the phone for instructions on how to check the transceiver software version.
4 Included with the phone. Note that this is a "straight through" and ***not*** a null modem cable.

3 Apollo Software Installation and Configuration

Direct Internet Data Service utilizes the Apollo Emulator product from Brand Communications Ltd. Prior to using your Iridium phone as a modem for Direct Internet Data, you must first install and configure the Apollo Emulator software on your computer. This software emulates a LAN connection (hence the name of the product) so that your PC "thinks" it is connected to a LAN or Internet service even though it is remote.

This section contains instructions for installing and configuring the Apollo Emulator in selected Microsoft Windows environments.

⇒ For **Windows 95, 98, Me, 2000 or XP,** complete the steps in section **3.1.**

⇒ For **Windows NT4.0**, complete the steps in section **3.2.**

3.1 Installation & Configuration - Windows 95/98/Me/2000/XP

In order to install the Apollo Emulator software in Windows 95, 98, Me, 2000 or XP, you will need the following:

- ✓ The Iridium World Data Services CD
- ✓ The software serial number that is provided with the Iridium World Data Services CD. This serial number is printed on the outside of the CD jacket
- ✓ Administrator privileges (if using Windows 2000 or Windows XP Professional Edition)

Windows 95/98/Me Note: The Apollo Emulator will create a new hardware profile on your computer during the installation. This hardware profile will be called "Iridium Direct-Internet." Hardware profiles are used to ensure that there are no conflicts between various devices such as LAN cards, such that each device is only enabled within its own hardware profile. In this way, the Apollo Emulator hardware profile enables the Apollo Emulator software but disables all other Network Adapters. Similarly, in non-Apollo Emulator profiles the Apollo Emulator software is disabled while the other appropriate devices are enabled. If you already use hardware profiles, the new one will appear in the boot-up list. If you do not already use hardware profiles, you will see a new screen each time your computer boots up.

Windows 95 Note: TCP/IP needs to be installed in order for the Apollo Emulator to work. Most times, the Apollo Emulator will do this for you, but it may have problems in early versions of Windows 95. In this case, it will warn you that TCP/IP installation must be done manually. TCP/IP can be installed manually by selecting *Start* > *Settings* > *Control Panel*. In the Control Panel window, double click on *Network*, and then click *Add*. Select *Protocol*, and click *Add*. Select *Microsoft* and *TCP/IP*. Use the default settings, and reboot the computer when requested.

1. Close all applications.

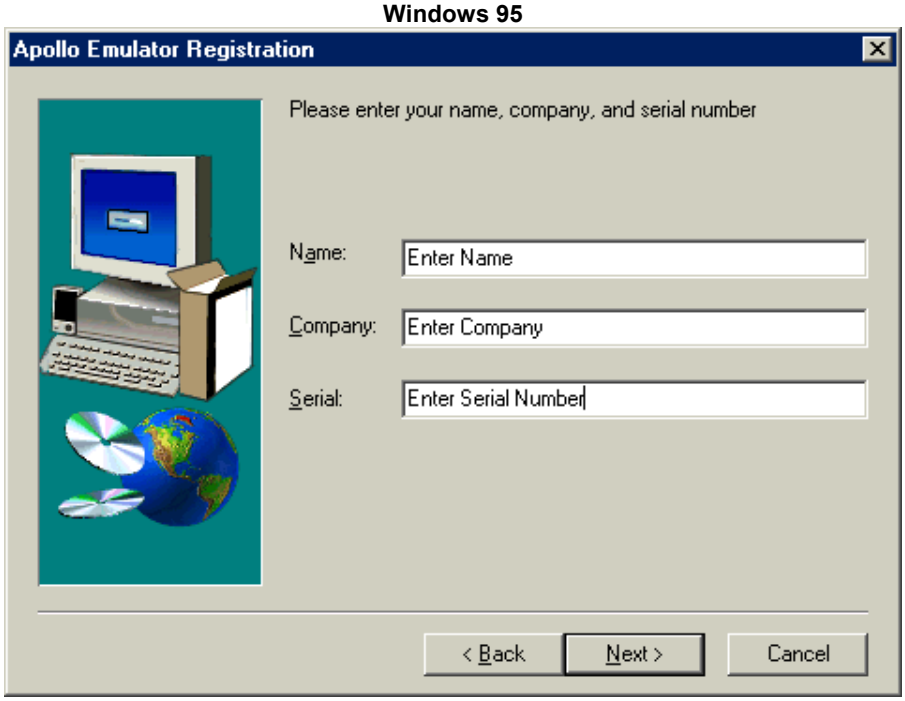
2. Disable any applications that are using the serial port (e.g. COM1) to which you will connect your Iridium phone. This includes PDA applications (e.g., HotSync), GPS and 2-way pager software.

3. Insert the Iridium World Data Services CD into your CD drive and browse to the appropriate directory:
   - **For Windows 95, browse to:** \Direct Internet\Windows95\Disk 1
   - **For Window 98/Me/2000/XP, browse to**: \Direct Internet\Windows98Me2000XP

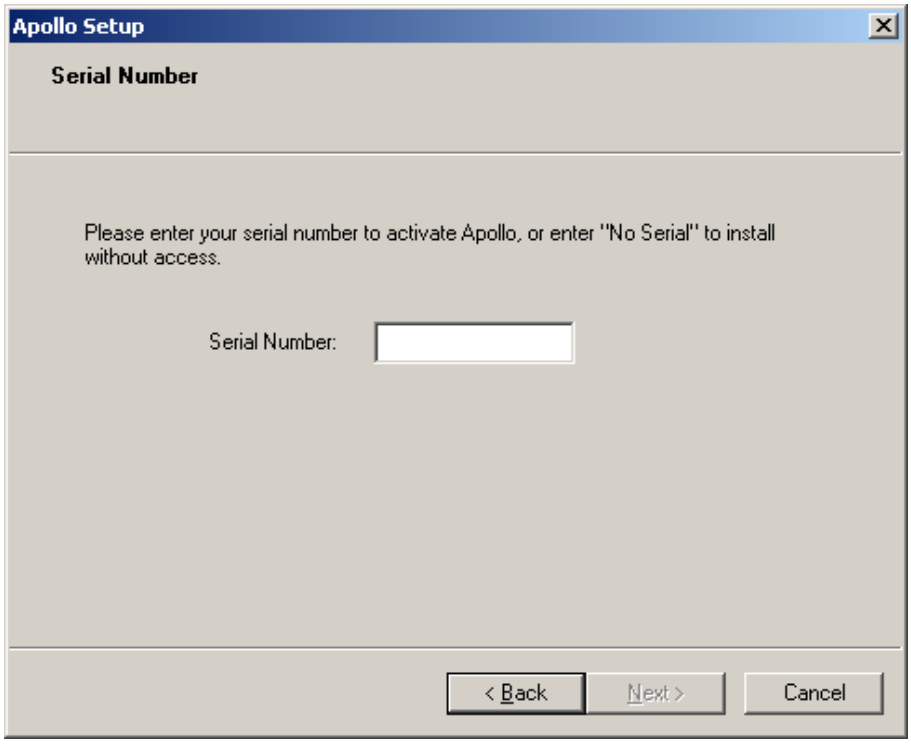
4. Double click on *Setup.exe* and follow the instructions displayed in the install screens. You can cancel at any time without affecting your system by clicking *Cancel*.

5. When prompted, enter your Name and Company (Only required in Windows 95), and the Software Serial number that was provided with your Iridium World Data Services CD. Click *Next* and continue following the installation instructions.

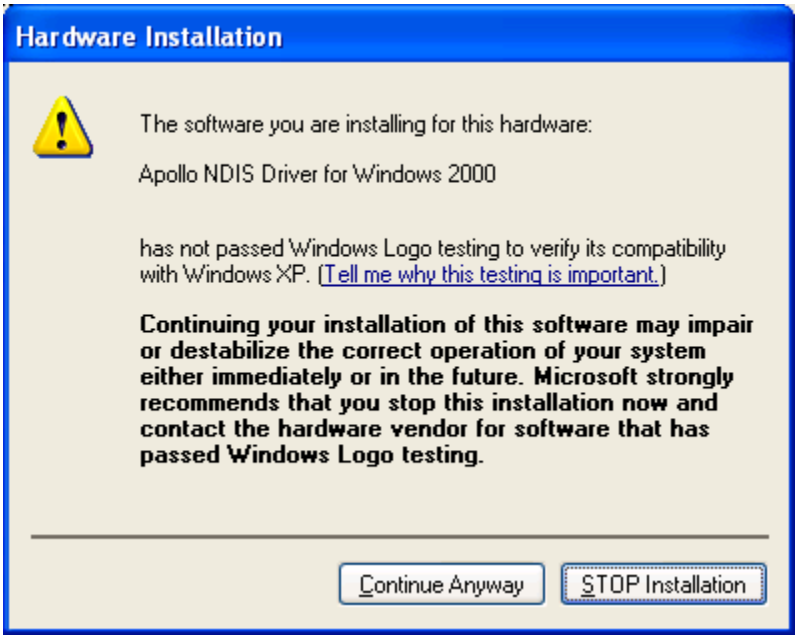
Windows 95



Windows 98/Me/2000/XP


Apollo Setup
Serial Number
Please enter your serial number to activate Apollo, or enter "No Serial" to install without access.
Serial Number:
< Back
Next >
Cancel

6. If using Windows XP, the following screen will appear. Click "*Continue Anyway*".

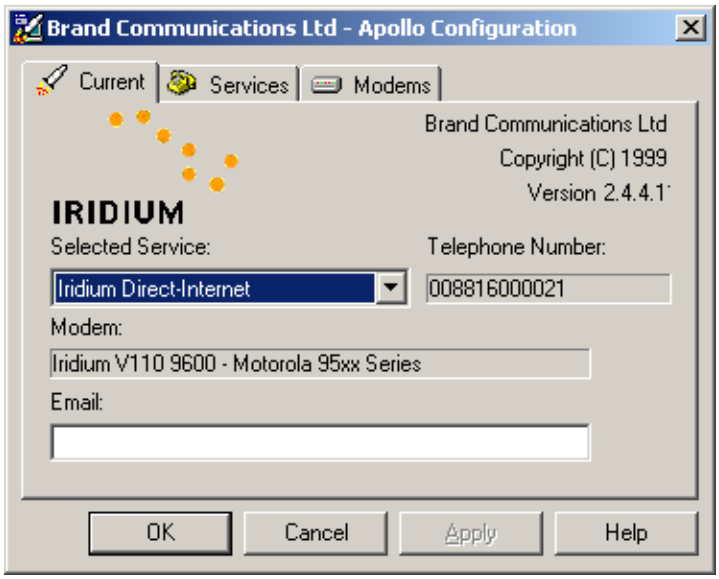

Hardware Installation
The software you are installing for this hardware:
Apollo NDIS Driver for Windows 2000
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

7. If using Windows 95 reboot your computer when prompted. During the reboot, you will see a new hardware configuration window. Select *Iridium Direct Internet*.

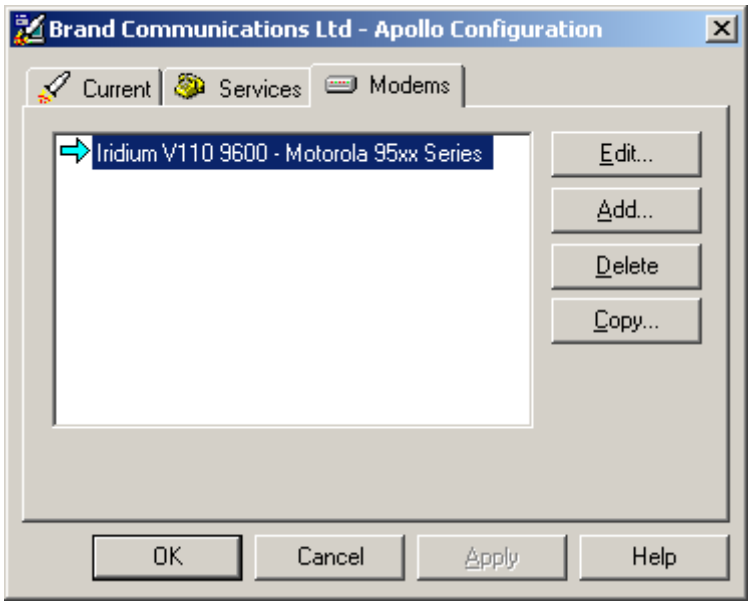
8. The *Apollo Configuration* window will pop up

   - If you will be connecting your Iridium phone to the COM1 serial port, *your installation is complete*. Click OK. If using Windows 98/Me, reboot your computer. During the reboot in Windows 98/Me, you will see a new hardware configuration window. Select *Iridium Direct Internet*. To connect your hardware and initiate a Direct-Internet call, continue with section **4.**

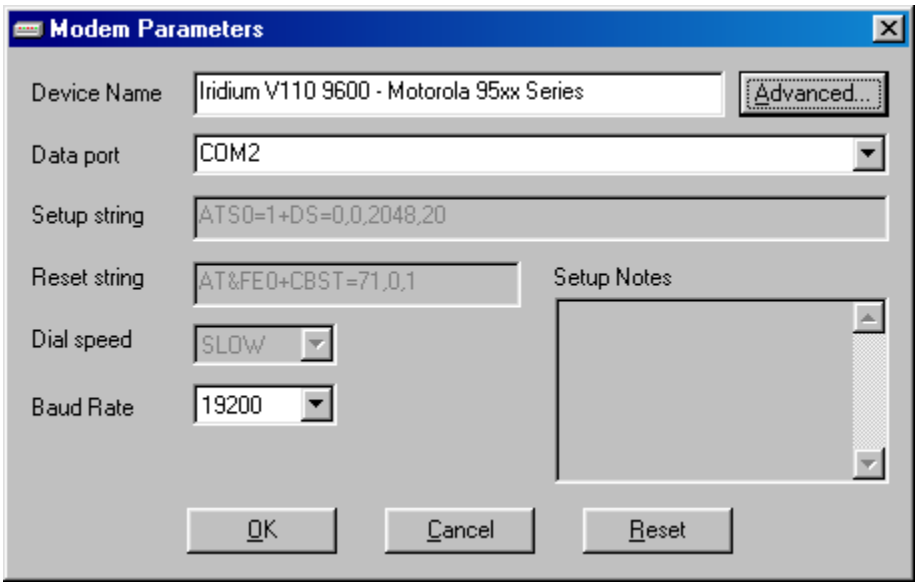
   - If you will be connecting your Iridium phone to a serial port other than COM1, continue with step 9.



9. Select the *Modems* tab and click *Edit...*



10. In the *Data port* drop-down box, select the Serial Port to which you plan to connect your Iridium handset (e.g., COM2, COM3). If you have installed the Motorola Satellite Series Modem driver for use with Dial-up Data, do ***not*** select this as your Data port. Click *OK, Close, Close.*



11. **If using Windows 98/Me, reboot your computer.** During the reboot in Windows 98/Me, you will see a new hardware configuration window. Select *Iridium Direct Internet*.

12. This completes the installation and configuration of the Apollo Emulator. To connect your hardware and initiate a Direct-Internet call, continue with section **4.**

3.2 Installation & Configuration - Windows NT4.0

In order to install the Apollo Emulator software in Windows NT4.0, you will need the following:

- ✓ The Iridium World Data Services CD
- ✓ The software serial number that is provided with the Iridium World Data Services CD. This serial number is provided on the outside of the CD jacket
- ✓ Administrator privileges for Windows NT4.0

The following three procedures must be performed:

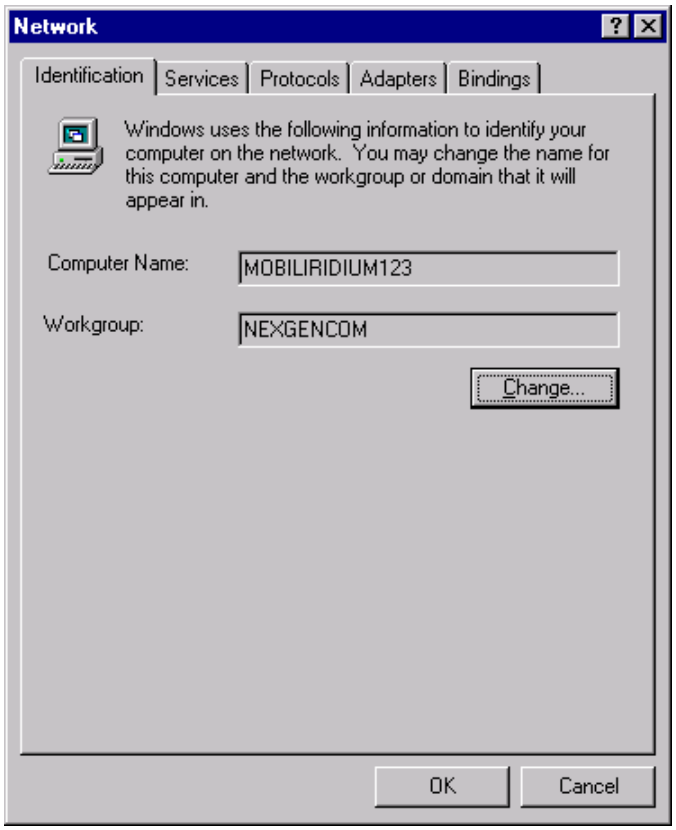
1. Install the Apollo Emulator driver and related files on the system (section **3.2.1**)
2. Create a new hardware profile for the Apollo Emulator (section **3.2.2**)
3. Create shortcuts to the necessary programs on the computer desktop (section **3.2.3**)
4. Add the Apollo Emulator to the Startup Menu (section **3.2.4**)
5. Configure the Apollo Emulator (section **3.2.5**)

3.2.1 Installation of the Apollo Emulator driver and related files

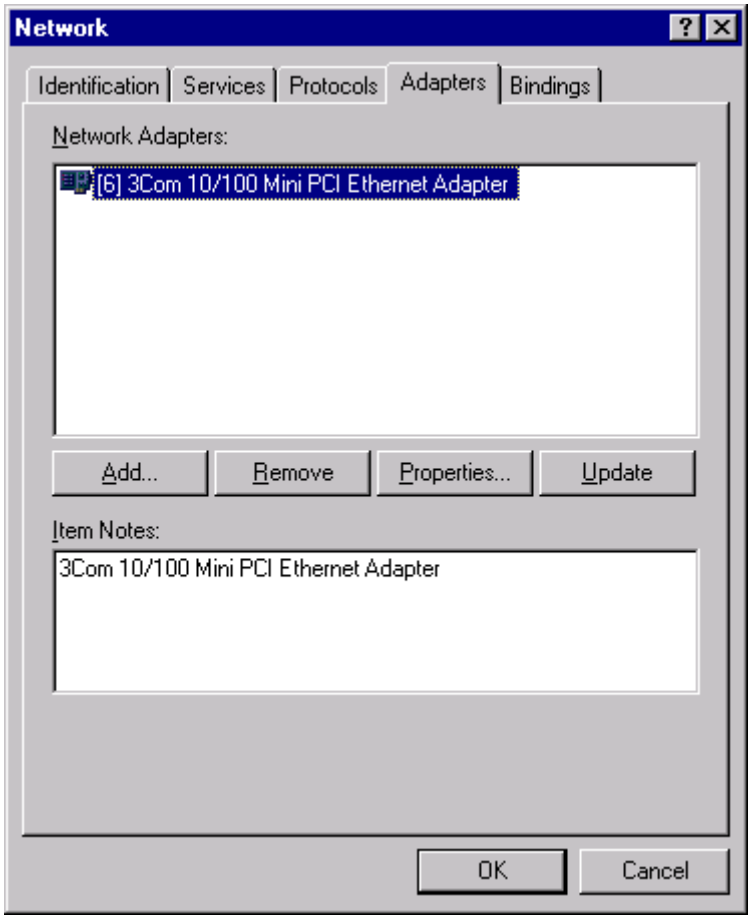
1. Close all applications.

2. Disable any applications that are using the serial port (e.g. COM1) to which you will connect your Iridium phone. This includes PDA applications (e.g., HotSync), GPS and 2-way pager software.

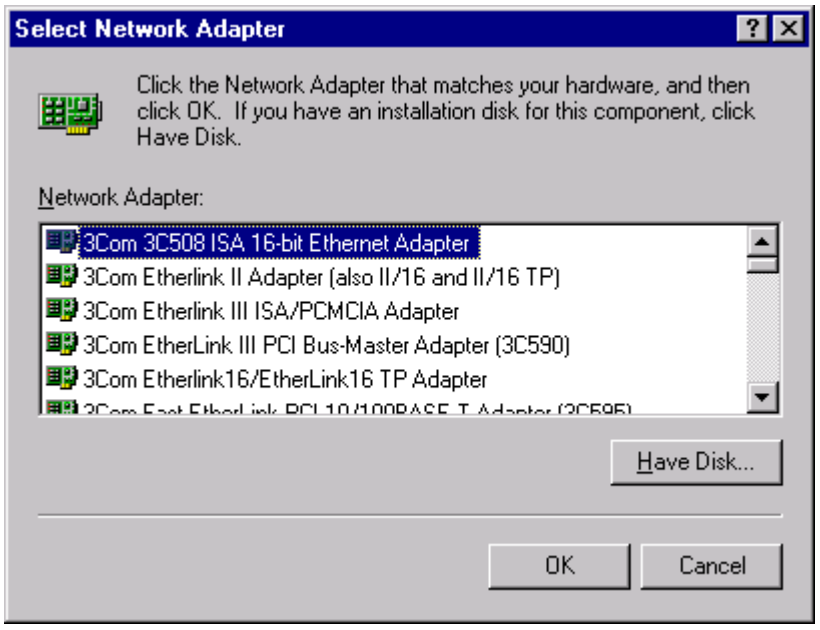
3. Right click on the *Network Neighborhood* icon on the desktop and select the *Properties* option. You will then be presented with the following window. Select the *Adapters* tab.



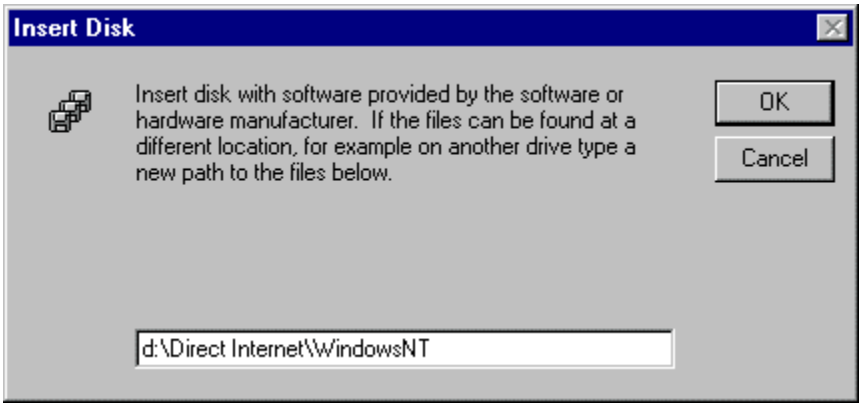
4. Click *Add…*



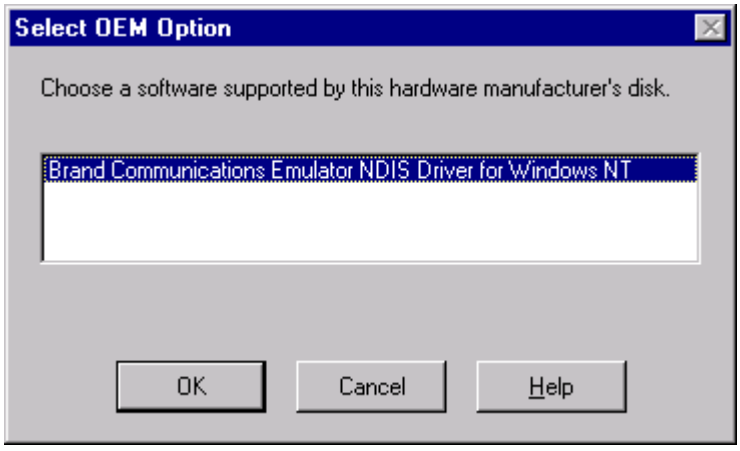
5. When prompted for the desired adapter, click on *Have Disk…*


Select Network Adapter
Click the Network Adapter that matches your hardware, and then click OK. If you have an installation disk for this component, click Have Disk.
Network Adapter:
3Com 3C508 ISA 16-bit Ethernet Adapter
3Com Etherlink II Adapter (also II/16 and II/16 TP)
3Com Etherlink III ISA/PCMCIA Adapter
3Com EtherLink III PCI Bus-Master Adapter (3C590)
3Com Etherlink16/EtherLink16 TP Adapter
Have Disk...
OK
Cancel

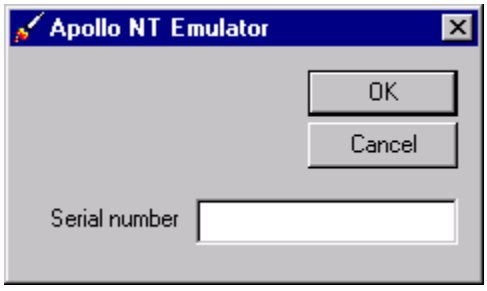
6. Enter the path containing the Apollo Emulator installation files for Windows NT. On the Iridium World Data Services CD these files are in the \Direct Internet\WindowsNT folder. Note: The letter corresponding to your CD-ROM drive will vary according to the specific configuration of your machine. In the example shown below, the CD-ROM drive has been assigned d:. Click *OK*.


Insert Disk
Insert disk with software provided by the software or hardware manufacturer. If the files can be found at a different location, for example on another drive type a new path to the files below.
OK
Cancel
d:\Direct Internet\WindowsNT

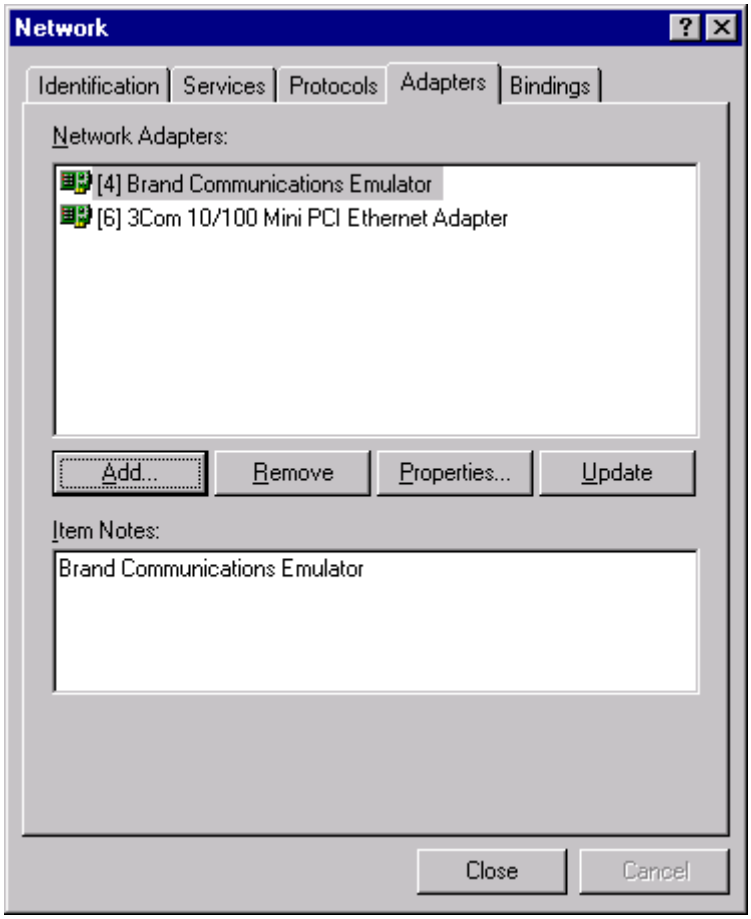
7. Select the driver for the *Brand Communications Emulator*, and click *OK*.



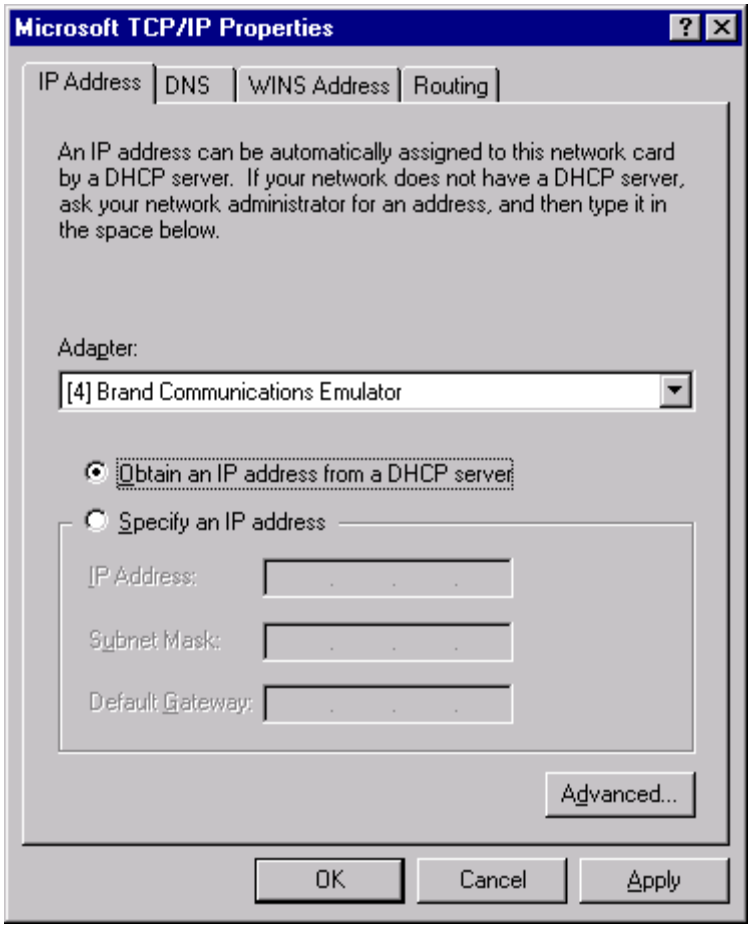
8. Enter the software serial number that was provided with your Iridium World Data Services CD. Click *OK*.



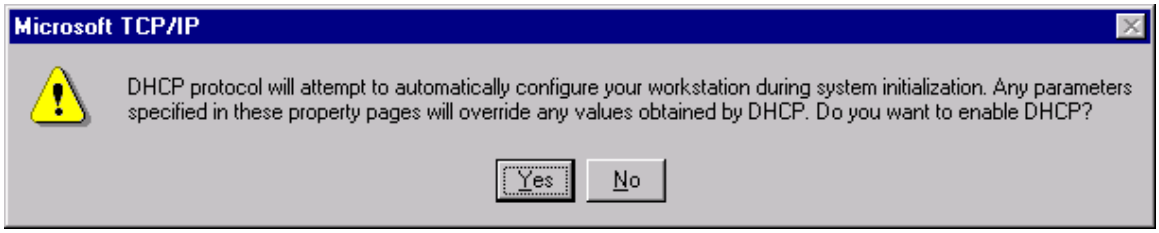
9. Click *Close* to close the Network Properties window.



10. The Microsoft TCP/IP Properties window should subsequently appear. Select the *Obtain an IP address from a DHCP server* setting. Click *OK*.


Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[4] Brand Communications Emulator
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:
Advanced...
OK
Cancel
Apply

11. The following dialog box will appear. Click *Yes*.

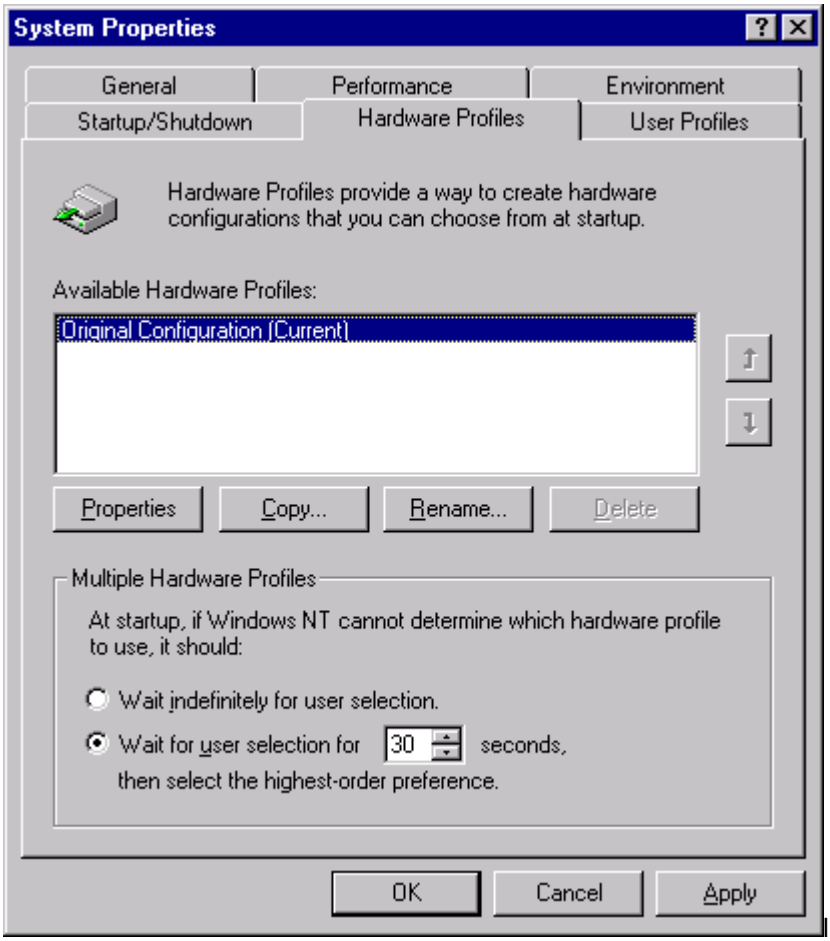

Microsoft TCP/IP
DHCP protocol will attempt to automatically configure your workstation during system initialization. Any parameters specified in these property pages will override any values obtained by DHCP. Do you want to enable DHCP?
Yes
No

12. At this point, you must reboot the computer. The system should prompt you to do so.

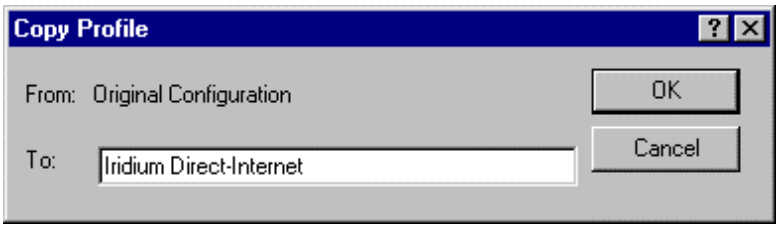
13. Complete the steps in section **3.2.2.**

3.2.2 Creation of a Separate Hardware Profile for the Apollo Emulator

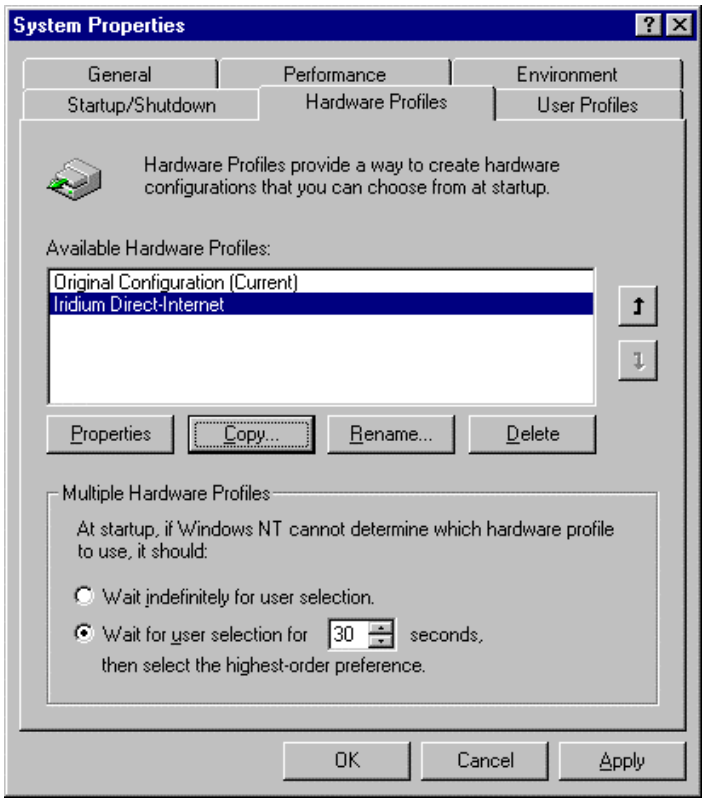
1. Open the Control Panel by selecting *Start* > *Settings* > *Control Panel*. Then, double click on the *System* icon. Click on the *Hardware Profiles* tab. Select the active hardware configuration (designated by *Current*). Click *Copy*…



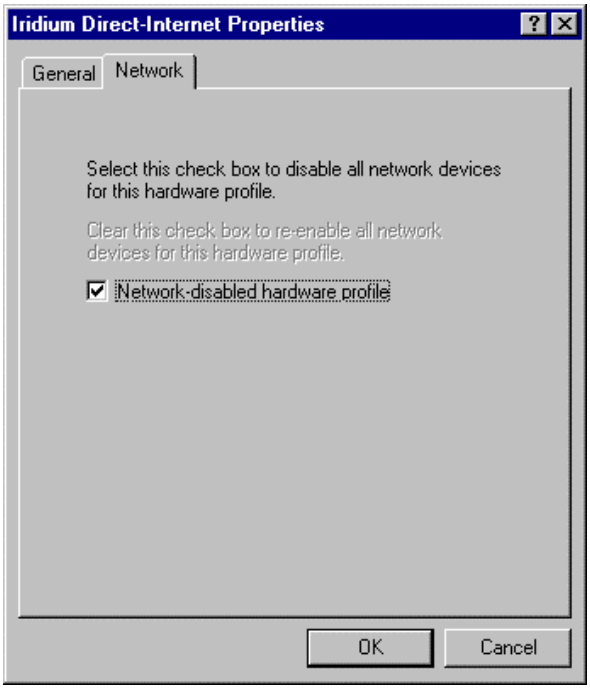
2. Enter a name for the new profile. Click *OK*.



3. The newly created profile should appear in the profile list. Select it and click the *Properties* button.

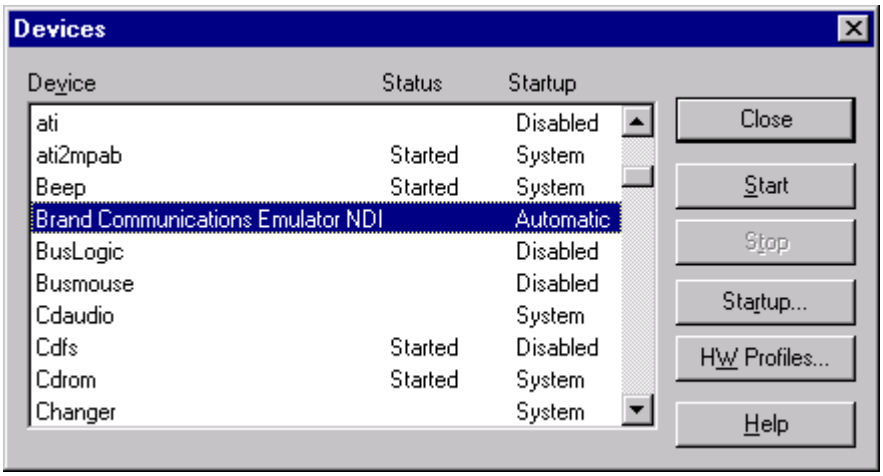


4. Select the network tab. Select the *Network-disabled hardware profile* checkbox. Click *OK*.

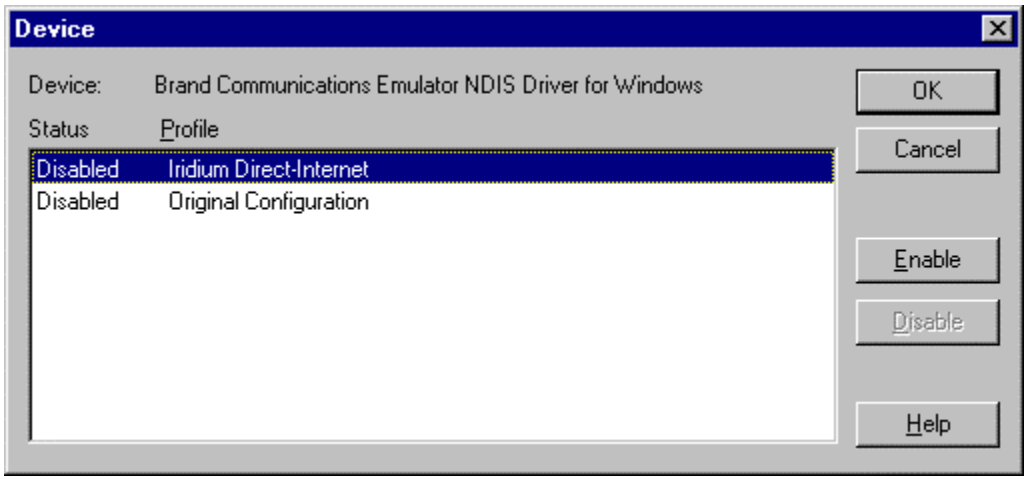

Iridium Direct-Internet Properties
General
Network
Select this check box to disable all network devices for this hardware profile.
Clear this check box to re-enable all network devices for this hardware profile.
Network-disabled hardware profile
OK
Cancel

5. Reboot the computer. During the reboot, you will be prompted to select the hardware configuration to use. Choose the New configuration that was just created.

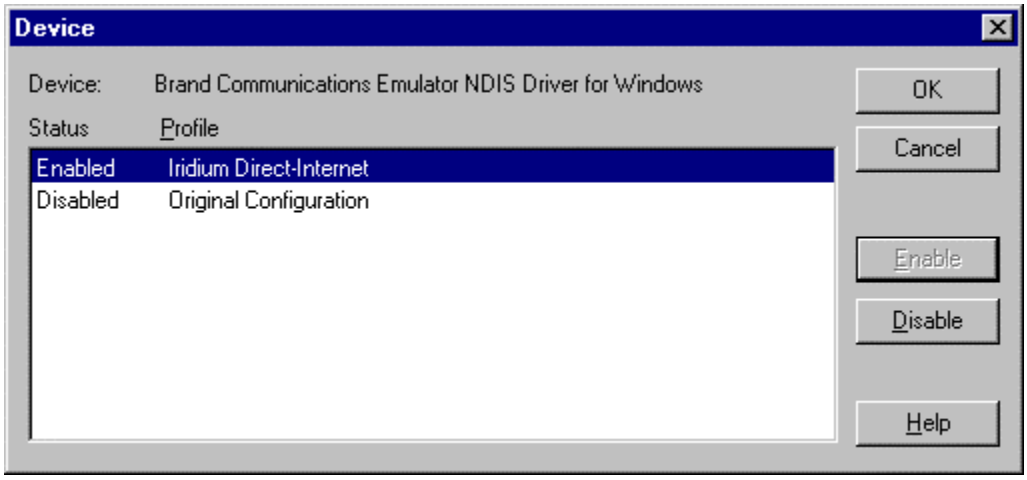
6. Once the computer has rebooted, open the Control Panel by *clicking Start > Settings > Control Panel*. Then, Double Click on the *Devices* icon. Scroll down and *select Brand Communications Emulator NDI.* Click *HW Profiles…*



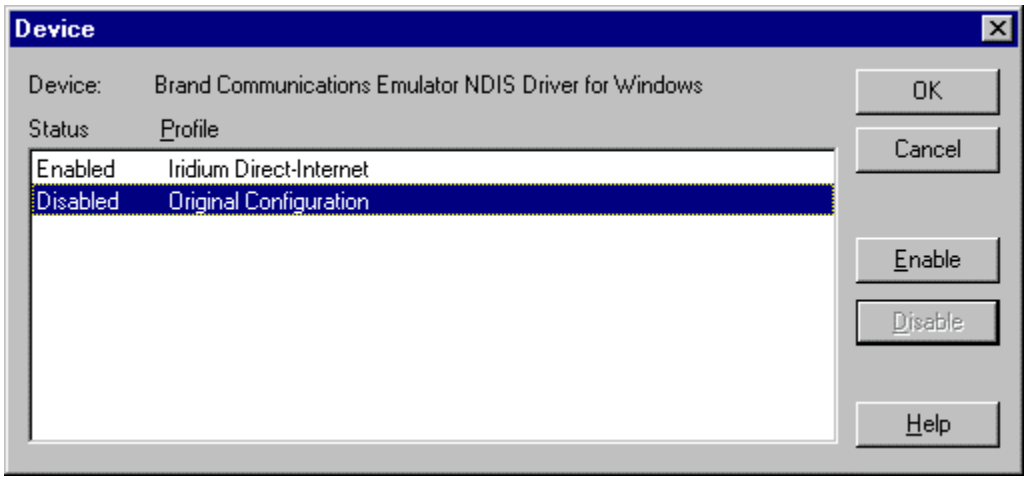
7. Select the new configuration (Iridium Direct-Internet in this example) and click *Enable*.



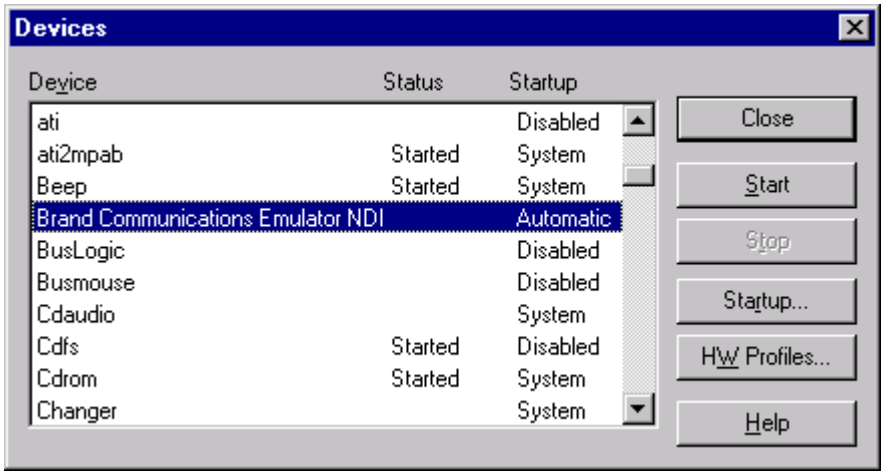
8. The configuration should now be enabled.



9. Highlight the Original Configuration and click *Disable*. The status of that configuration should now be shown as Disabled. Click *OK*.



10. The Devices window should be redisplayed. Click *Close*.



11. Reboot the computer.

12. During the reboot, a menu will appear. Select the *Iridium Direct-Internet* profile in the boot-up menu.

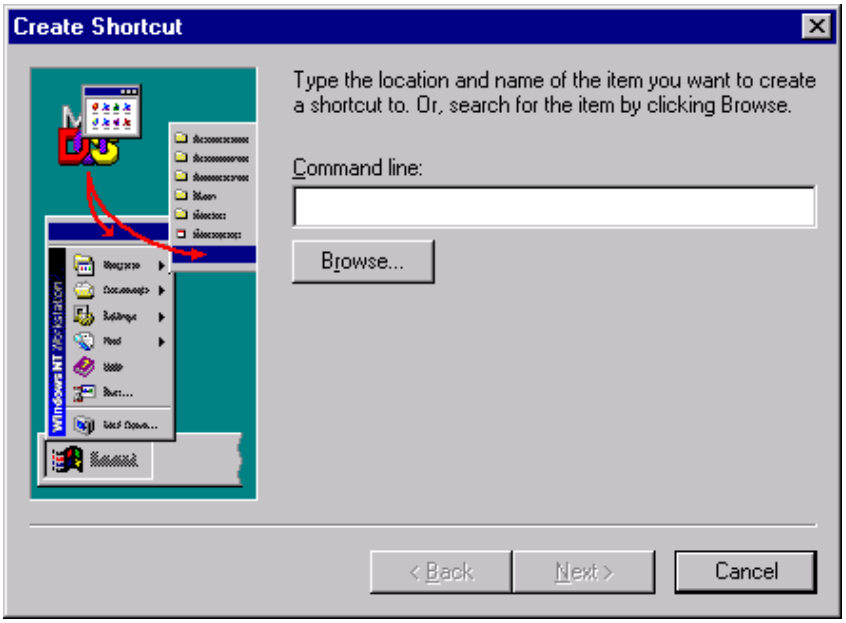
13. Complete the steps in section **3.2.3**.

3.2.3 *Creation of Shortcuts on the User's Desktop*

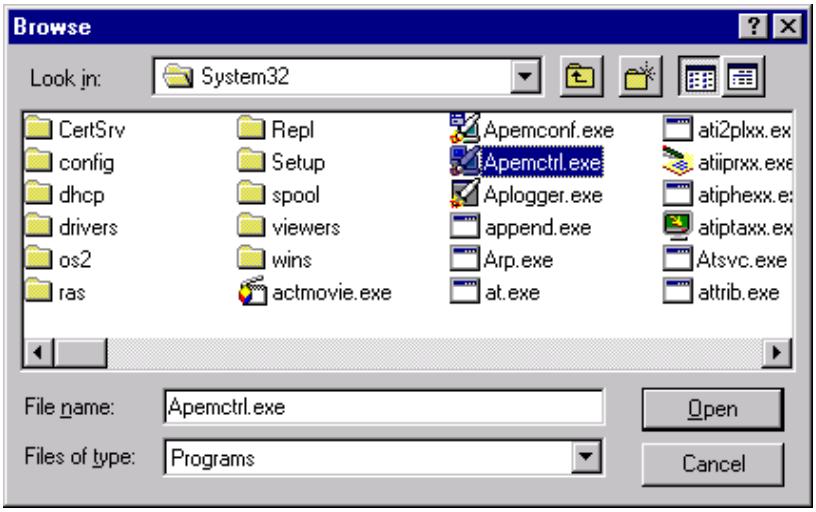
1. If you are in the Administrator account, press ctrl-alt-del and log out.

2. Log into the desired user account.

3. Right click on the desktop. Select the *New* > *Shortcut* option. Click on the *Browse* button.


Create Shortcut
Type the location and name of the item you want to create a shortcut to. Or, search for the item by clicking Browse.
Command line:
Browse...
< Back
Next >
Cancel

3. Go to the \WINNT\System32 directory and select *Apemctrl.exe*. Click on the *Open* button, then click on *Next*, and then click on *Finish*.



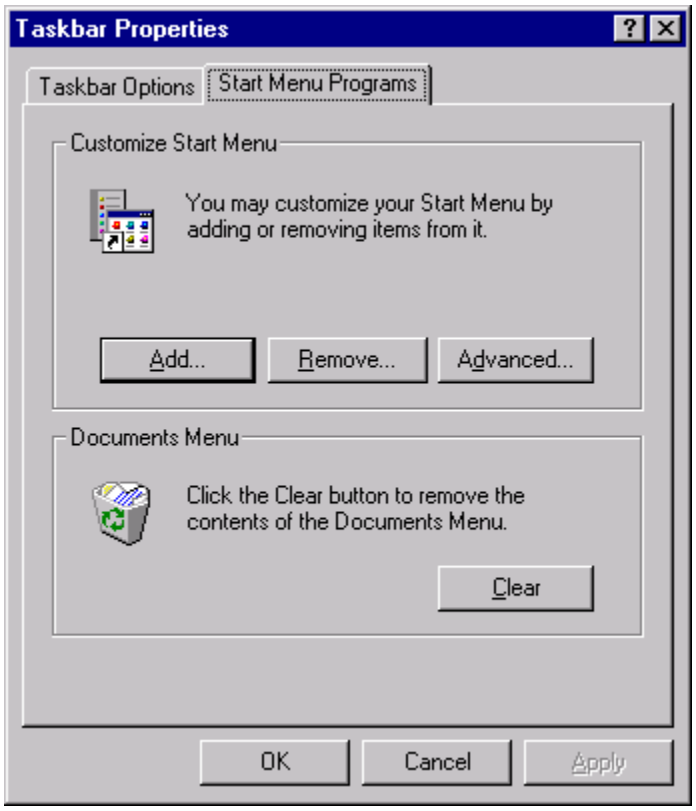
4. A shortcut should be created on the desktop.

5. Repeat the steps above to create shortcuts to *\WINNT\System32\Apemconf.exe* and *\WINNT\System32\Aplogger.exe* on the user's desktop.

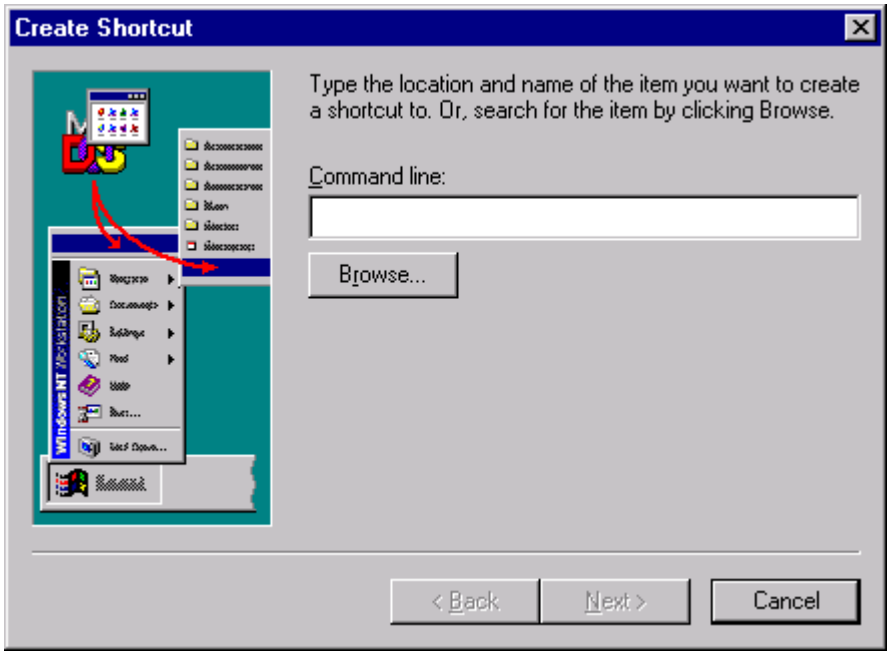
6. Complete the steps in section **3.2.4.**

3.2.4 Adding the Apollo Emulator to the Startup Menu

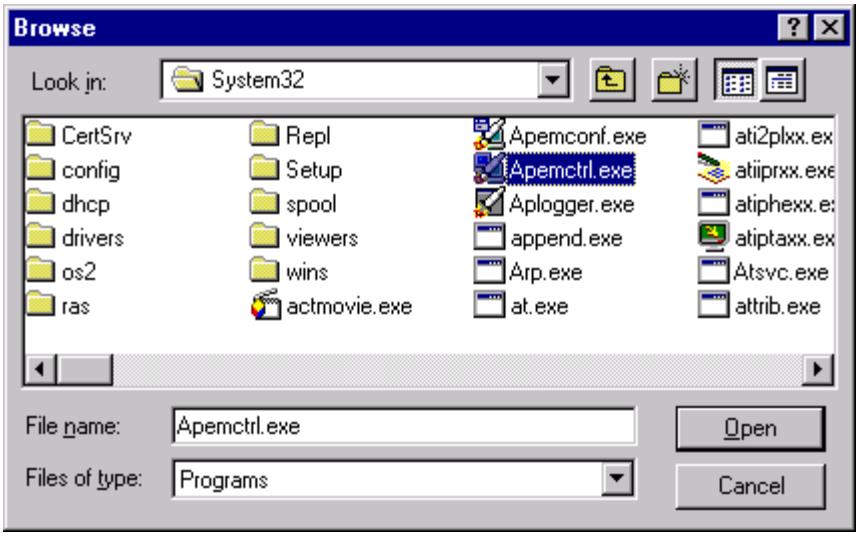
1. Select Start > Settings > Taskbar. Select the *Start Menu Programs* tab. Click the *Add* button.



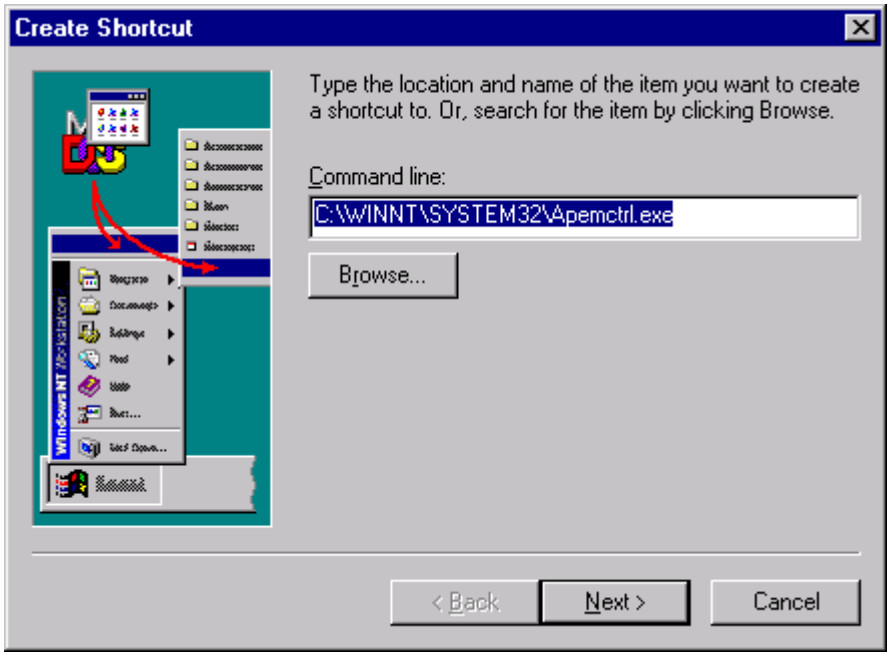
2. Click the *Browse* button.


Create Shortcut
Type the location and name of the item you want to create a shortcut to. Or, search for the item by clicking Browse.
Command line:
Browse...
< Back
Next >
Cancel

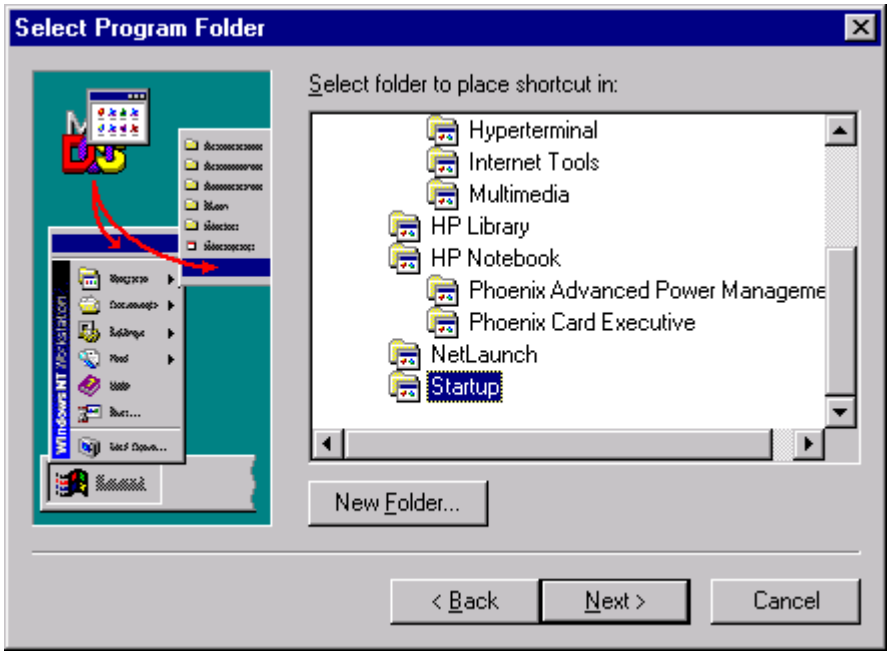
3. Select *\WINNT\System32\Apemctrl.exe*. Click the *Open* button.



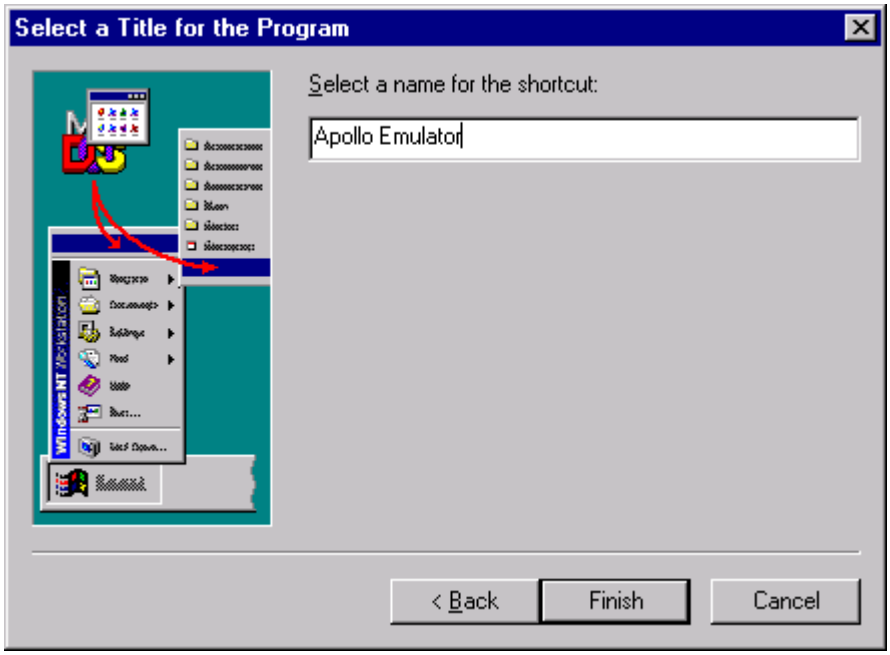
4. Click the *Next* button.


Create Shortcut
Type the location and name of the item you want to create a shortcut to. Or, search for the item by clicking Browse.
Command line:
C:\WINNT\SYSTEM32\Apemctrl.exe
Browse...
< Back
Next >
Cancel

5. Select the *Startup* program folder. Click *Next >.*



6. Enter a name for the shortcut. Click *Finish*.



Note: After adding the Apollo Emulator to the Startup Menu, when the user selects any hardware configuration where the Apollo client is disabled, the following warning may appear.

If this occurs, click the *OK* button. No adverse affects should be observed hereafter.

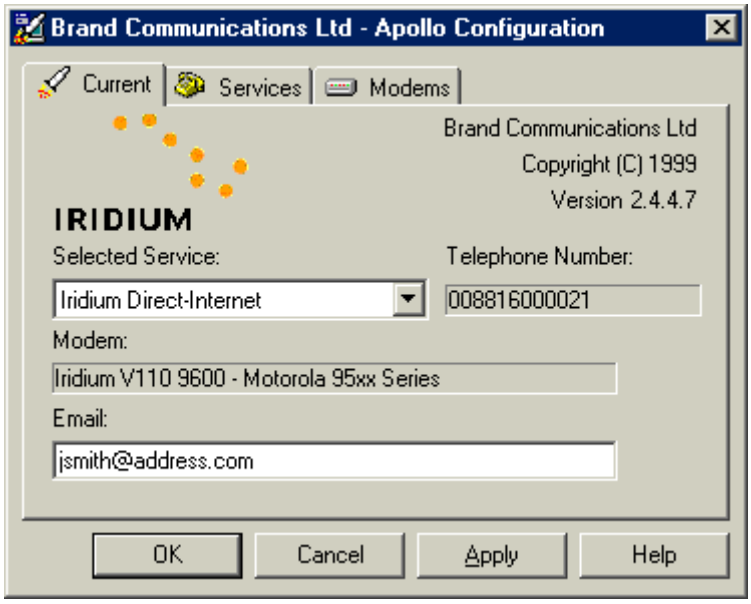
7. Complete the steps in section **3.2.5**.

3.2.5 Configure Apollo Emulator

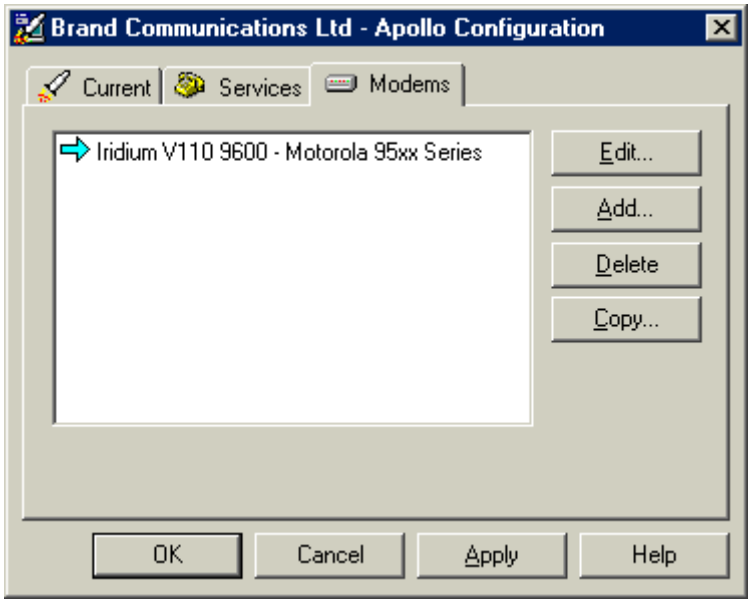
NOTE: If you will be connecting your Iridium phone to COM1, *your installation is complete*. To connect your hardware and initiate a Direct-Internet call, continue with section 4.

If you will be connecting your Iridium phone to a COM port other than COM1, complete the following steps:

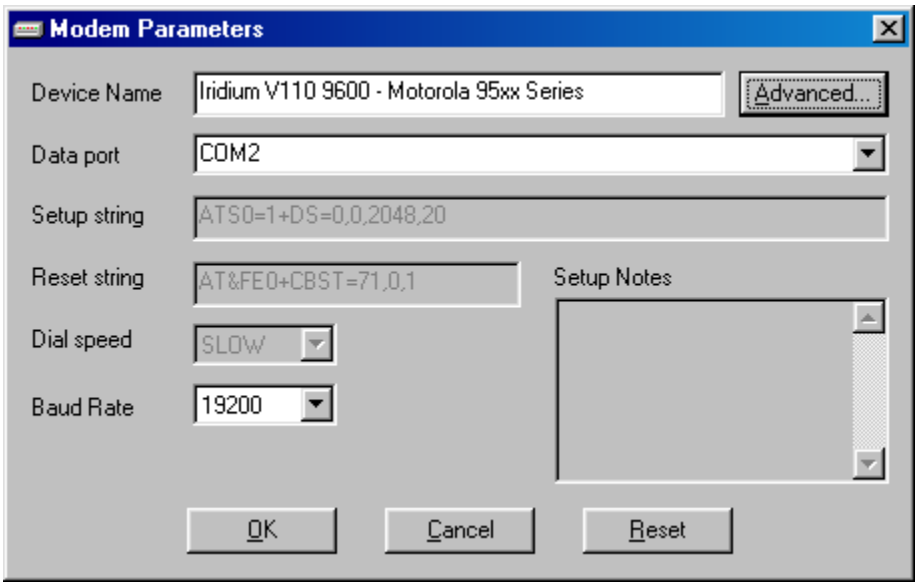
1. Double click the ApEmCong.exe icon on your desktop. The *Apollo Configuration* window will open up.



2. Select the *Modems* tab and click *Edit...*



3. In the *Data port* drop-down box, select the Serial Port to which you plan to connect your Iridium handset (e.g., COM2, COM3). If you have installed the Motorola Satellite Series Modem driver for use with Dial-up Data, do ***not*** select this as your Data port. Click *OK* and close all open windows.



4. This completes the installation and configuration of the Apollo Emulator. To connect your hardware and initiate a Direct-Internet call, continue with section **4.**

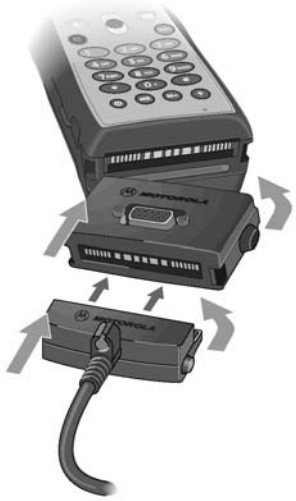
4 Hardware Connections

4.1 Setting up the 9500 or 9505 Portable Phone

1. Insert your data-provisioned SIM card into the phone. See the user guide for your phone if you need further instructions on how to insert the SIM card.

2. Connect the Data Adapter to the bottom of the phone.

3. (Optionally) connect a charging device to the Data Adapter.



4. Plug the Serial Cable into the Data Adapter.

5. Plug the Serial Cable into the serial port on your computer.

6. Rotate and extend the phone's antenna. Place the phone into the stand, or otherwise position the phone so that the antenna is vertical and has a clear view of the sky.

7. Continue with section **5**.

4.2 Setting up the 9570 Portable Dock

1. Insert your data-provisioned SIM card into the phone or the dock. See the user guide for your Portable Phone or Portable Dock if you need further instructions on how to insert the SIM card.

2. Insert the 9500 Portable Phone into the Portable Dock (or insert a 9505 Portable Phone, with optional dock adapter).

3. Plug the Serial Cable into the back of the Portable Dock.

4. Plug the Serial Cable into the serial port on your computer.

5. Connect an external antenna to the Portable Dock, and orient the antenna so that it has a clear view of the sky.

6. Continue with section **5**.

4.3 Setting up the 9520 Mobile Phone

1. Insert your data-provisioned SIM card into the Mobile Phone. See the user guide for your phone if you need further instructions on how to insert the SIM card.

2. The wiring harness for the 9520 Mobile Phone contains a built-in Serial Cable. Plug the Serial Cable into the serial port on your computer.

3. Verify that an external antenna is connected to the Mobile Phone, and orient the antenna so that it has a clear view of the sky.

4. Continue with section **5**.

4.4 Setting up the EuroCom Iridium Fixed Mount Unit

1. Open the small lid on the top of the transceiver unit and insert your data-provisioned SIM card. See the user guide for your phone if you need further instructions on how to insert the SIM card.

2. The EuroCom Iridium Fixed Mount Unit comes with a 9-Pin Serial Cable. Plug the Serial Cable into the port labeled “Data” on the transceiver unit.

3. Plug the Serial Cable into the serial port on your computer.

4. Verify that an external antenna is connected to the phone, and orient the antenna so that it has a clear view of the sky.

5. Continue with section **5**.

5 Connecting to the Internet

The following are tips for the successful operation of the Apollo Emulator in order to access Iridium Direct Internet services. Please read these tips before using the Apollo Emulator for the first time.

1. For the Apollo Emulator to work, you always need to select the Apollo Emulator hardware profile at boot-up of the PC (unless you are running Windows 2000 or XP). In any other hardware profile, the Apollo Emulator is disabled. If you boot into the wrong configuration, the Apollo Emulator software will be disabled, and you will not be able to access Iridium's Direct Internet Services.

2. Windows 2000 and XP do not require different hardware configurations while using the Apollo Emulator to access Direct Internet Services.

   However, you should not be attached to a LAN while using the Apollo Emulator with Windows 2000 or XP. Prior to accessing Direct Internet services with Windows 2000 or XP, you should either:

   - Disconnect the Ethernet cable from your NIC card, or…
   - Disable the NIC card. To do this, click on *Start* > *Settings* > *Network And Dialup Connections.* Right-click *Local Area Connection* and then left-click *Disable.* Note that prior to reconnecting to a LAN, you will need to re-enable this.

3. While your computer is in the Apollo Emulator hardware profile, you cannot put your computer into the Suspend/Hibernate mode. (Normally, this is only an issue if you are using a laptop.) In fact, you are strongly encouraged to modify your power settings on your computer to disable the power saving options to avoid entering the Suspend/Hibernate mode (e.g., by closing the lid of your laptop). The Suspend/Hibernate modes cause problems since these will disable your serial port, to which the Apollo Emulator is communicating.

   To modify your power management settings, open your Control Panel by selecting Start > Settings > Control Panel. In the Control Panel window, double click on Power Options (or variation thereof), and change your settings to disable the Suspend/Hibernate mode.

4. You should always log out of your Direct Internet session before shutting down your computer. If you fail to log off, (e.g., your battery loses its charge), it is not a problem. The server may reject your initial subsequent log in attempt, because it thinks you are already logged in. If this happens, simply log in a second time, which will then succeed.

5. Within the Configuration window, you cannot change any of the settings or parameters (e.g., spoofing timeouts) until you have logged out of your current session.

6. If you select Auto-Logon after reboot, your computer will attempt to automatically dial and log you into a new session every time you boot your computer in the Apollo Emulator hardware profile. Therefore, you will need to ensure that your Iridium handset is connected and registered at this time.

7. You cannot normally swap handsets midway through a session (e.g., while you are spoofed), as the change may cause the server to bar the session for authentication reasons. If you need to change handsets, log out first. Then, swap handsets, and log back in.

8. Familiarize yourself with which COM port your communications device uses, and ensure that you select the correct one within the Configuration window. No other application (e.g., Dial-

Up Networking) can use the COM port that the Apollo Emulator is using while the Apollo Emulator is transferring data or in spoofed mode. To release the COM port for other applications, either log off or re-boot in a different hardware profile.

9. Please remember that your Iridium data connection is not as fast as the landline connections to which you may be accustomed. Sending and receiving data will take much longer and response times will be slower. The Apollo Emulator's compression and call recovery features will help in improving your performance

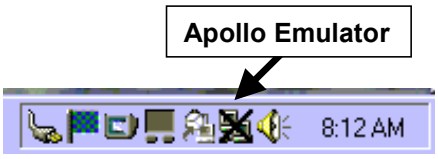
Note: See the ***Application Notes*** document for instructions on how to optimize some common software applications for use with Iridium data services.

5.1 Logging On

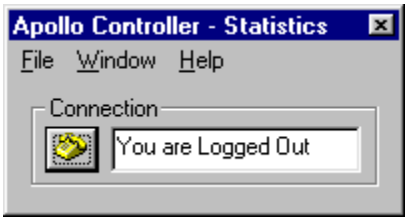
You must first log onto the Direct Internet server in order to access the Direct-Internet services.

1. Connect your computer and Iridium phone as described in section **4.**
2. Orient the phone's antenna with a clear view of the sky.
3. If your computer is off, turn it on and wait for it to boot up.
4. Turn on your Iridium phone and wait for it to register with the satellite network.
5. Double click on the Apollo Emulator icon in your task bar, which is the networking icon with an "**X**" to denote "Logged Out."

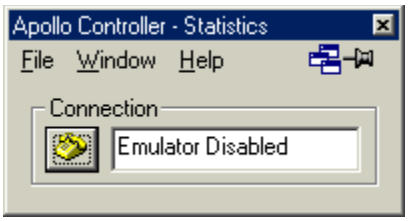
Windows 2000 Note: If you are using Direct Internet for the first time in Windows 2000, you must double-click the "Apollo Controller" icon on your desktop. This will load the Apollo Emulator icon into your task bar.



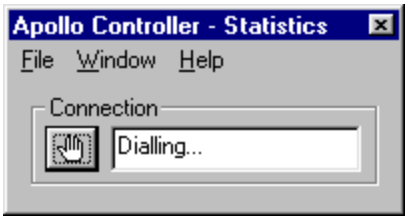
The Apollo Controller window opens up.



If you are not in the correct hardware configuration, the Apollo Controller will indicate that the Apollo Emulator is disabled. You will need to reboot into the proper hardware configuration.



6. Click on the telephone icon to initiate a connection. The software will initialize the Iridium handset and begin dialing.



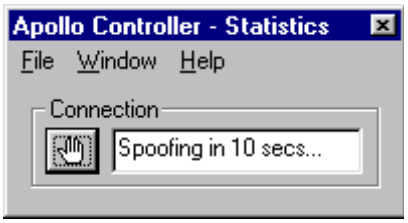
7. Once connected, the server will authenticate you.

8. After successful authentication, you will be logged onto the server and have a direct connection to the Internet. While logged in, the networking icon in the taskbar will appear with red and green flashing screens to indicate transmit and receive traffic flow.

5.2 Spoofing

While logged in, the Apollo Emulator will intelligently drop your call (or "Spoof") whenever there is no data being passed, and transparently reconnect the call whenever there is new data to be sent, without losing your session and without you having to manually reconnect or log back in every time. Airtime charges accumulate only while the call is connected.

Prior to spoofing, the Apollo Emulator will warn you by starting to count down to zero:



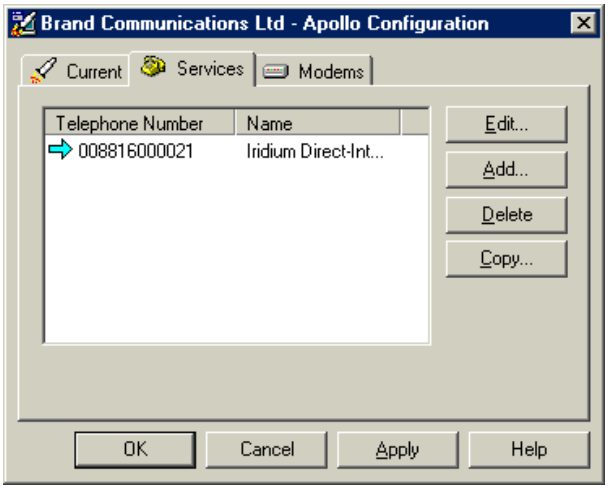
Once spoofed, the Apollo Emulator status will change from "You are connected" to "Connection Spoofed." While spoofed, the networking icon in the system tray will appear with a lightning bolt through it to denote "Spoofed Session."

5.2.1 Changing Spoofing Timeout Setting

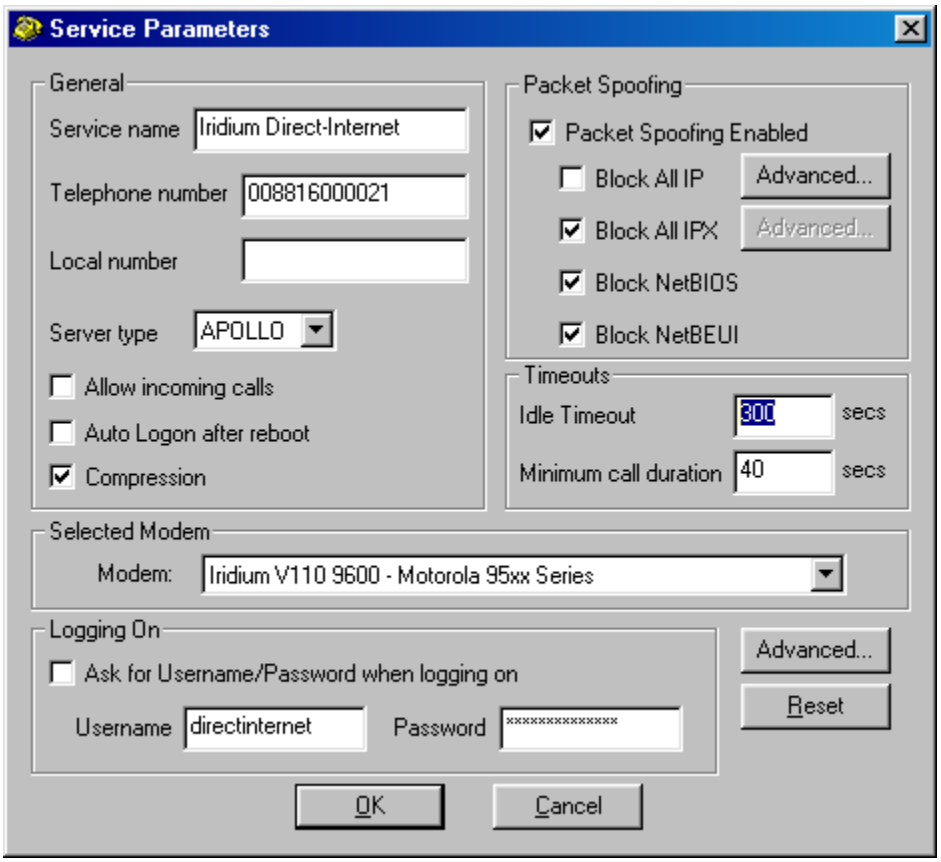
The spoofing timeout has a default setting of 300 seconds, which should be appropriate for most users. To change this setting, perform the following steps:

1. Double-click the Apollo Configuration icon on your desktop. Depending on your operating system, it will named one of the following: *Apollo Emulator Config, ApEmConf.exe, Apollo Configuration,* or *Configuration.*

2. Select the *Services* tab, and then click *Edit*...



3. In the *Idle Timeout* box, enter a value between 5 and 3600 seconds.

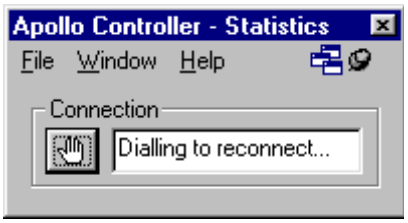


4. Click *OK* and close all open windows.

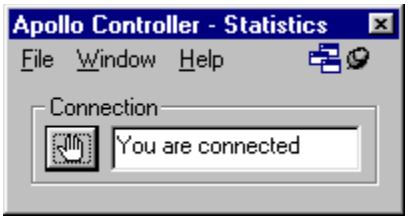
5.3 Reconnecting

While spoofed, the Apollo Emulator will transparently reconnect the call whenever there is new data to be sent - without you having to manually reconnect or log back in every time. In addition, if you are connected and your connection is dropped or fails for any reason, the Apollo Emulator will transparently reconnect you – without any intervention from you.

The Apollo Emulator will notify you while reconnecting:

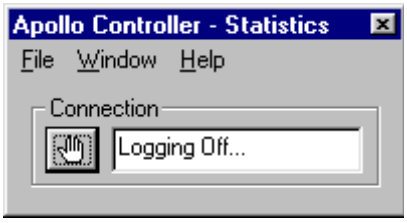


Once reconnected, the Apollo Emulator will update its state to “You are connected.”

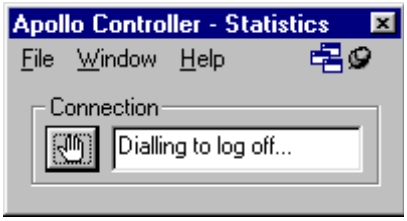


5.4 Logging Off

When you are ready to end your Direct-Internet session, click the connection (“hand”) icon to log off of the Direct-Internet server. Once logged off, you will have to log in again in order to access the Direct-Internet services.



If you are spoofed and select the connection icon to log off, the Apollo Emulator will transparently reconnect you in order to log off.



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